

ABSTRACT OF THE DISCLOSURE

A semiconductor laser diode module in which a laser diode and an optical fiber are optically coupled with each other efficiently irrespective of an ambient temperature change within the laser diode module. The laser diode module includes a laser diode, an optical system including an optical fiber and a lens portion, a base configured to support the laser diode and at least a portion of the optical system, and a bottom plate configured to support the laser diode, the optical system, and the base. A portion of the base is made of a material having a first thermal expansion coefficient and the bottom plate is constructed of a material having a second thermal expansion coefficient, where the first thermal expansion coefficient is substantially equal to the second thermal expansion coefficient. The optical system is configured to receive and transmit a beam emitted from the laser diode through the lens portion to the optical fiber.

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